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**Mfg. inorganic binder for concrete - by adding alkali metal hydroxide  
opt. mixed with carbonate or bicarbonate and organic acid salt or a sugar  
to blast furnace slag**

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Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP58009863	A	19830120			198309	B
JP83038376	B	19830823			198337	

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Patent Details:

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JP58009863 A 3

Abstract (Basic): JP 58009863 A

Inorganic binder is obtd. by adding 1-30 pts.wt. alkali metal hydroxide or a mixt. consisting of 1-30 pts.wt. alkali metal hydroxide with 1-30 pts.wt. alkali metal carbonate or alkali metal bicarbonate, and 0.01-5 pts.wt. organic acid salt or a kind of sugar, to 100 pts.wt. pulverous granulated blast furnace slag having Blaine specific surface area of at least 3000 cm<sup>2</sup>/g.

Although initial strength higher than that of Portland cement is attained by addn. of a specified amt. of alkali metal hydroxide or its mixt. with alkali metal carbonate or bicarbonate, setting time becomes too short and flow down becomes too high. These disadvantages are eliminated by addn. of organic acid salt or sugar. The compression strength of concrete is also remarkably improved by the use of organic acid salt or sugar.